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Papers read before the Society from February 1883 *to February* 1884.

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Mar. 9. Observations of Comet *b* 1882, made with the transit circle of the Royal Observatory, Greenwich. Astronomer Royal.

Observations of the partial solar eclipse 1882, November 10. J. Tebbutt.

Observations of occultations of stars by the Moon, of phenomena of *Jupiter's* satellites, and of the eclipse of the Sun 1882, May 16, made at the Royal Observatory, Greenwich. Astronomer Royal.

Observations of the transit of *Venus* 1882, December 6, made at Cambridge, Mass., U.S.A. E. F. Sawyer.

The proper motions of telescopic stars. Prof. R. Grant.

On the observations of the transit of *Venus* 1882, December 5–6, made at the Lick Observatory, Mount Hamilton, California. Prof. D. P. Todd.

Observations of the transit of *Venus* 1882, December 5–6, made at the Observatory, Kingston, Canada. Prof. J. Williamson.

The variability of *β Cygni* and 63 *Cygni*. Rev. T. E. Espin.

Notes on some of Schjellerup's identifications of Al Sufi's stars. J. E. Gore.

On the account of William Ball's observations of *Saturn* in the *Philosophical Transactions*. H. T. Vivian.

Note on observations of *Mercury*. W. F. Denning.

Observations of occultations of stars by the Moon and of phenomena of *Jupiter's* satellites, made at Stonyhurst in 1882. Rev. S. J. Perry.

Note on Prof. Newcomb's remarks on the Windsor observations of the transit of *Venus* in 1874. J. Tebbutt.

Note on a photograph of the great nebula in *Orion*, and some new stars near *θ Orionis*. A. A. Common.

On the magnifying power of a telescope. J. M. Schaeberle.

Notes upon certain doubtful star-places. Prof. T. H. Safford.

On the relative motion of the components of 6 *p. Eridani*. A. M. W. Downing.

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Observations of comet *a* 1883, made with the Sheepshanks equatorial at the Royal Observatory, Greenwich. Astronomer Royal.

On the visibility of the dark side of *Venus*. Prof. C. V. Zenger.

Note, accompanying drawings of the Great Comet (*b*) 1882, made at the Observatory, Arcetri, Florence. W. Tempel.

Notes on the transit of *Venus* 1882, December 6. Rev. F. Howlett.

Physical observations of *Jupiter*. W. F. Denning.

Sur les observations du passage de *Vénus*, 1882, Décembre 6, faites à l'Observatoire, Moncalieri. Padre F. Denza.

April 13. Spectroscopic observations of Comet Swift 1883. Dr. N. de Konkoly.

On the position of λ *Ursæ Minoris*. John Tatlock.

Notes on the Great Comet (*b*) 1882. E. E. Markwick.

Note on some criticisms made by Mr. Stone on the methods available for determining the solar parallax. David Gill.

Note on the nucleus of the Great Comet (*b*) 1882, (extract from a letter to Mr. Knobel). David Gill.

On Mr. Finlay's pre-perihelion observations of the Great Comet (*b*) 1882. David Gill.

On the computation of the eccentric anomaly, equation of the centre, and radius vector of a planet, in terms of the mean anomaly and eccentricity. Dr. J. Morrison.

Note on the eclipse of *Jupiter's* fourth satellite on April 4, 1883. Capt. W. Noble.

Observations made at the United States Naval Observatory, Washington. Prof. A. Hall.

Observations of Comet *a* 1883, made at the Royal Observatory, Greenwich. Astronomer Royal.

May 11. Measures of the companion to *Sirius*. S. W. Burnham.

Observations of the companion of *Sirius*, made at the Dearborn Observatory, Chicago. Prof. G. W. Hough.

Post-perihelion observations of the Great Comet (*b*) 1882. John Tebbutt.

Astrophysical observations made during the year 1882 at the Herény Observatory, Hungary. Eugen von Gothard.

Physical observations of *Jupiter* and *Mars*, made during the year 1882, at the Herény Observatory, Hungary. Alexander von Gothard.

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Observations of Comet *c* (Schaeberle), made at the Cambridge Observatory with the Northumberland equatoreal and square bar micrometer. Prof. J. C. Adams.

Observations of Comet *a* 1883 (Brooks–Swift), made at the Cambridge Observatory with the Northumberland equatorial and square bar micrometer. Prof. J. C. Adams.

Note on Dr. Morrison's paper on the computation of the eccentric anomaly, &c. Prof. J. C. Adams.

Observations of Sun-spots from May 1877 to February 1883. E. E. Markwick.

On Hell's alleged falsification of his observations of the transit of *Venus* in 1769. Prof. S. Newcomb.

On the solar motion in space. W. E. Plummer.

An explanation of the principal cause of the large errors at present existing between the positions of the Moon deduced from Hansen's Tables and observation; and the cause of an apparent increase in the secular acceleration in the Moon's mean motion required by the tables, or of an apparent change in the time of the Earth's rotation. E. J. Stone.

Note on photographs of κ *Crucis* and of the nebula in *Orion* (extract from a letter to Mr. Stone). R. L. J. Ellery.

Photometric determination of the brightness of the brighter stars north of the equator. Prof. C. Pritchard.

On the orbit of γ *Coronæ Australis*. A. M. W. Downing.

Note with respect to the shadow of the planet *Jupiter*. A. C. Ranyard.

The nucleus of Comet *b* 1882. A. A. Common.

June 8. The annular solar eclipse of 1836, May 15. Alex. Brown.

Preliminary account of a telegraphic determination of the longitude of the Royal Observatory, Cape of Good Hope. David Gill.

Determinations of longitudes on the east coast of Africa. W. H. Finlay.

Note on the chromosphere. Rev. S. J. Perry.

Phenomena of *Jupiter's* satellites observed at Mr. E. Crossley's Observatory, Bermerside, Halifax, during the opposition of 1882–3. J. Gledhill.

Observations of U *Monocerotis*, and LL 14551, with a new photometer. Rev. T. E. Espin.

Observations of occultations of stars by the Moon, and of phenomena of *Jupiter's* satellites, made at the Radcliffe Observatory, Oxford, 1877–78, and 1882–83. E. J. Stone.

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Elliptic elements of Comet *b* 1882. John Tatlock.

Ephemeris of the satellite of *Neptune*, 1883–84. A. Marth.

Ephemerides of the satellites of *Saturn*, 1883–84. A Marth.

Ephemeris for physical observations of *Jupiter*, 1883–84. A. Marth.

Postscript to note on M. Loewy's communication referring to an apparatus for the determination of flexures. A. Marth.

Note on Delaunay's expression for the Moon's parallax. Prof. J. C. Adams.

Nov. 9. On the change in the adopted length of the tabular "mean solar day," which takes place with every change in the adopted value of the Sun's mean sidereal motion. E. J. Stone.

Ephemeris for physical observations of *Mars*, 1883–84. A. Marth.

Measures of southern double stars. E. B. Powell.

On humidity as a cause of variation of rate in chronometers. Major-General J. F. Tennant.

Note on the mass of *Saturn*. Prof. A. Hall.

Note on some observations of the transits of *Mercury* and *Venus* made in Australia by Mr. Russell and Mr. Tebbutt. Prof. S. Newcomb.

Observations of the variable star R *Carinæ*, from May 1880 to September 1883. John Tebbutt.

Elliptic elements of Comet 1882 I. (Wells). F. J. Parsons.

Jupiter without visible satellites. Rev. S. J. Johnson.

Disappearance of *Jupiter's* satellites. Wentworth Erck.

Showers of large meteors. W. F. Denning.

On the evidence afforded by the Greenwich Lunar Observations 1862–1881 of a change in the adopted unit of time in 1864. E. J. Stone.

Observations of Comet *b* (Pons-Brooks) made at the Royal Observatory, Greenwich. Astronomer Royal.

Note on the Greenwich mean tabular errors of R.A. of the Sun. Edwin Dunkin.

Dec. 14. Ephemeris for finding the positions of the satellites of *Mars* 1883–84. A Marth.

Ephemeris for finding the positions of the satellites of *Uranus*, 1884. A. Marth.

On the change in the adopted unit of time. Major-General J. F. Tennant.

Rotation period of *Jupiter*. W. F. Denning.

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On the supposed unreliability of the Greenwich Observations of the Sun in mean results. E. J. Stone.

On the supposed possible independence of Bessel's and Le Verrier's expressions for the mean longitude of the Sun, subject to the conditions imposed upon them by their use in practical astronomy in the determination of mean solar time. E. J. Stone.

Note on a narrow belt on the planet *Saturn.* A. C. Ranyard.

Note accompanying drawing of the Great Comet (*b*) 1882 (extract from a letter to Mr. Stone). General G. H. Willis.

On the change in the unit of time implied in the substitution of Hansen's for Bessel's expression for the longitude of the mean Sun. Prof. A. Cayley.

Observations of Comet *b* 1883 (Pons-Brooks) made at the Royal Observatory, Greenwich. Astronomer Royal.

On the spectrum of Comet *b* 1883 (Pons-Brooks) observed at the Royal Observatory, Greenwich. Astronomer Royal.

The orbit of the Great Comet (*b*) 1882. Dr. J. Morrison.

Note on the recent twilight glow. W. Mattieu Williams.

Remarks on Mr. Stone's explanation of the large and increasing errors of Hansen's Lunar Tables by means of a supposed change in the unit of mean solar time. Prof. J. C. Adams.

Observations of Pons's Comet made at the United States Naval Observatory with the 9·6-inch equatorial. W. T. Sampson and E. Frisby.

1884. Jan. 11. Observations of Comet III. 1882 (Barnard). W. H. Finlay.

The meteor shower of Pons's Comet. W. F. Denning.

On the latitude of the Observatory, Windsor, New South Wales. John Tebbutt.

Observations of occultations of stars by the Moon and of phenomena of *Jupiter's* satellites made at the Royal Observatory, Greenwich, in the year 1883. Astronomer Royal.

Suggestion for an observing seat for transit instruments. Richard Inwards.

Note giving a numerical illustration of the effects of a percentage change in the Sun's mean motion in longitude. E. J. Stone.

The belts of *Saturn.* Henry Pratt.

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Spectroscopic results for the motions of stars in the line of sight obtained at the Royal Observatory, Greenwich, in the year 1883. No. VII. Astronomer Royal.

Heliometer determinations of stellar parallax in the Southern hemisphere. David Gill and W. L. Elkin.

Elements of the orbit of Comet *a* 1883 (Barnard's). Robert Bryant.